

Title (en)

OXAZINE COMPOUND AND APPLICATION THEREOF

Title (de)

OXAZINVERBINDUNG UND ANWENDUNG DAVON

Title (fr)

COMPOSÉ D'OXAZINE ET SON UTILISATION

Publication

**EP 3792265 A1 20210317 (EN)**

Application

**EP 19796624 A 20190422**

Priority

- CN 201810420618 A 20180504
- CN 2019083615 W 20190422

Abstract (en)

Disclosed are an oxazine compound and an application thereof. The oxazine compound has a structure of a general formula F. The oxazine compound described in the disclosure is a photo/acoustic dynamic active organic molecule with near-infrared absorption-emission function as well as photosensitivity and acoustic sensitivity. Maximum absorption and emission wavelengths of the compound are both greater than 660 nanometers, and a triplet-state conversion rate of the compound is high; and under illumination or ultrasound, the compound can produce reactive oxygen species with high efficiency, which has a good killing effect on cancer cells and cancer tissues, and almost has no toxic or side effects on normal tissues while achieving photo/acoustic dynamic therapy on tumors.

IPC 8 full level

**C07D 513/16** (2006.01); **A61P 35/00** (2006.01); **C07D 517/16** (2006.01); **C09K 11/06** (2006.01); **G01N 21/64** (2006.01)

CPC (source: CN EP US)

**A61K 9/14** (2013.01 - US); **A61K 41/0033** (2013.01 - US); **A61K 41/0057** (2013.01 - US); **A61P 35/00** (2017.12 - CN EP US);  
**C07D 513/16** (2013.01 - CN EP US); **C07D 517/16** (2013.01 - CN EP US); **C09K 11/06** (2013.01 - CN EP US); **G01N 21/6428** (2013.01 - CN US);  
**C09K 2211/1018** (2013.01 - EP US); **C09K 2211/1029** (2013.01 - CN EP); **C09K 2211/1092** (2013.01 - CN EP);  
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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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JP 7117453 B2 20220812; US 11639360 B2 20230502; US 2021188875 A1 20210624; WO 2019210786 A1 20191107

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